

PTO/SB/08a (05-03)

Approved for use through 05/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Complete if Known

Application Number	10/789,210
Filing Date	February 27, 2004
First Named Inventor	T.J. Piona
An Unit	3663
Examiner Name	Unknown
Attorney Docket Number	26.0273 US

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>SPH</i> <i>SPH</i> <i>SPH</i> <i>SPH</i> <i>SPH</i> <i>SPH</i>		US- 4,594,691	06-10-1986	C.V. Kimball, et al.	
		US- 4,698,792	10-06-1987	A. L. Kurkjian	
		US- 5,077,697	12-31-1991	S-K. Chang	
		US- 5,278,805	01-11-1994	C.V. Kimball	
		US- 6,614,716	09-02-2003	T. Piona, et al.	
		US- 2002/0183930	12-05-2002	T. Piona, et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner
Signature*Scott A. Hughes*Date
Considered*9/28/2005*

*EXAMINER: Initial if reference considered, whether or not citation is in accordance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/05b(05-03)

Approved for use through 05/31/2005, OMB 0351-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/789,210
		Filing Date	February 27, 2004
		First Named Inventor	T.J. Piona
		Art Unit	3663
		Examiner Name	Unknown
Sheet 2	of 2	Attorney Docket Number	26.0273 US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SAH		T.J. Piona, M.R. Kinn, B. Sinha and J. Walsh, "Evaluating Stress-Induced Anisotropy and Mechanical Damage From Cross-Dipole Sonic Data Using Dispersion Analysis", SPE/ISRM 78233, 2002	
SAH		C.V. Kimball, T.L. Marzetta, "Seismic processing of borehole acoustic array data", Geophysics Vol. 49, No. 3, pp. 274-281, 1984	
SAH		Lang, S.W., Kurkjian, A.L., McClellan, J.M., Morris, C.F., and Parks, T.W., "Estimating slowness dispersion from arrays of sonic logging waveforms", Geophysics, 52, pp. 530-544.	
SAH		Sinha, B.K., Norris, A.N., and Chang, S.K., "Borehole flexural modes in anisotropic formations", Geophysics, 59, pp. 1037-1052.	
SAH		Brie, A., Kimball, C.V., Pabon, J., and Salki, Y., 1997, "Shear slowness determination from dipole measurements", 38th SPWLA Ann. Inter. Symp.	
SAH		Endo, T., Pietro, V., Brie, A., 1999, "Optimum Slowness Evaluation from Sonic Waveform Data", 5th Well Logging Symp. of Japan.	
SAH		Piona, T., Sinha, B., Kane, M., Shanoy, R., Bose, S., Walsh, J., Ikogami, T., Endo, T., Skelton, O., "Mechanical Damage Detection and Anisotropy Evaluation using Dipole Sonic Dispersion Analysis", 2002, 43th SPWLA Ann. Inter. Symp., Paper KK	
SAH		Lu, C.C. and Liu, Q.H., 1995, "A three-dimensional dyadic Green's function for elastic waves in multiphase cylindrical structures," J. Acoust. Soc. Am., v.98, pp. 2825-2835.	
SAH		Sinha, B.K., Asvadurov, S., 1990, "Higher-order modes in a fluid-filled borehole", 1990, IEEE Int. Ultrasonics Symp. Proc., v. 2, pp. 1115-1120.	
SAH		Sinha, B., Kostek, S., Piona, T.J., Chang, S.K., 1992, "Asymmetric wave propagation in fluid-loaded cylindrical shells", Part I, J. Acoust. Soc. Am., 82, pp. 1132-1143.	

Examiner Signature	<i>Scott A. Hughes</i>	Date Considered	9/28/2005
--------------------	------------------------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.